# Power PCB Relay

- Up to 30 A switching capacity in compact package.
- Available with quick-connect contact terminals for easy load connecting with either QC or PCB coil terminals.
- UL Class F coil insulation standard
- Minimum 6 kV Impulse Surge Withstand.
- Ideal for home and industrial appliances, HVAC and many other applications.
- UL recognized / CSA certified.
- VDE approved.
- RoHS Compliant



# **Ordering Information**

To Order: Select the part number and add the desired coil voltage rating, (e.g., G8P-1A4P-DC12).

Mounting type	Contact form	Construction	Model
PCB	SPST-NO	Open frame	G8P-1AP
		Sealed with ventable nib*	G8P-1A4P
	SPDT	Open frame	G8P-1CP
		Sealed with ventable nib*	G8P-1C4P
PCB & Quick Connect load terminals	SPST-NO	Open frame	G8P-1ATP
		Sealed with ventable nib*	G8P-1A4TP
	SPDT	Open frame	G8P-1CTP
		Sealed with ventable nib*	G8P-1C4TP
Flange mount Quick Connect terminals	SPST-NO	Vented	G8P-1A2T-F
	SPDT	Vented	G8P-1C2T-F

Note: Load terminals are .250" Quick Connect. Coil terminals on Flange Mount versions are .187" Quick Connect.

\* Sealed and vented optional.

## **Specifications**

## Contact Data

Туре	SPST-NO	SPDT		
Rated load	30 A 250 VAC, 20 A 28 VDC	20/10 A* at 250 VAC, 20/10 A at 28 VDC		
Contact material	Ag-Alloy			
Carry current	30 A max.	20/10 A*		
Max. operating voltage	250 VAC, 28 VDC	250 VAC, 28 VDC		
Max. operating current	AC 30 A, DC 20 A AC 20/10 A, DC 20/10 A*			
Max. switching capacity	7,500 VA, 560 W 5,000/2,500 VA, 560/280 W*			
Min. permissible load	500 mA@ 5 VDC (AgSnIn), 100 mA @ 5 VDC (optional alloy)			

\* NO contact/NC contact

## ■ Coil Data

Rated voltage (VDC)	Rated current	Coil resistance	Pick-up voltage	Dropout voltage	Maximum voltage	Power consumption
(VDC) (mA)		(Ω)		% of rated voltage		(mŴ)
5	185	27	75% max.	10% min.	120% max.	Approx. 900
9	93	97				
12	77	155				
24	36	660				
48	19	2,480				
110	9	12,400	-			

Note: The rated current and coil resistance are measured at a coil temperature of 23°C (73°F) with tolerances of ±10%.

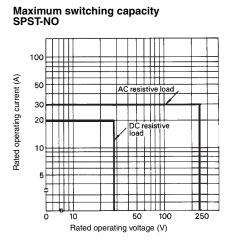
## ■ Characteristics

Contact resistance		100 m $\Omega$ max. (measured with 5 VDC, 1 A)	
Operate time		15 ms. max.	
Release time		10 ms. max.	
Insulation resistance		100 MΩ min. (at 500 VDC)	
Dielectric strength		2,500 VAC, 50/60 Hz for 1 minute (coil to contacts),	
		1,500 VAC, 50/60 Hz for 1 minute (between contacts)	
Impulse surge withstand		6,000 V between coil to contacts (1.2 $\mu$ s/50 $\mu$ s & 100 kHz ring wave per IEC 1000-4-12	
Vibration Mechanical durabilit		10 to 55 Hz, 1.65 mm (0.06 in) double amplitude for 2 hours	
	Malfunction durability	10 to 55 Hz, 1.65 mm (0.06 in) double amplitude for 5 minutes	
Shock	Mechanical durability	1,000 m/s² (approx. 100 G)	
	Malfunction durability	100 m/s <sup>2</sup> (approx. 10 G)	
Ambient temperature		-55° to 105°C, cold coil condition (with no icing)	
		-55° to 85°C, hot coil condition (hot start) (with no icing)	
Humidity		5% to 85% RH	
Service life	Mechanical	10 million operations minimum	
	Electrical	100,000 operations, 360 ops/hr, at rated load (minimum)	

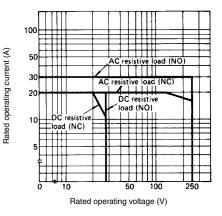
Note: 1. Data shown are of initial value. Operate and release times excluding bounce.

2. Please vent sealed relays after processing in order to achieve rated electrical service life, by removing the vent nib.

## ■ Characteristic Data

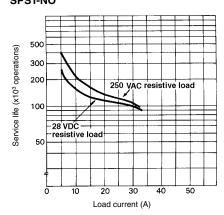


#### SPDT

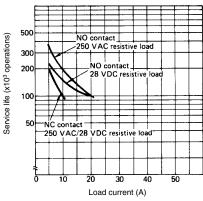


## ■ Characteristic Data

Electrical service life SPST-NO



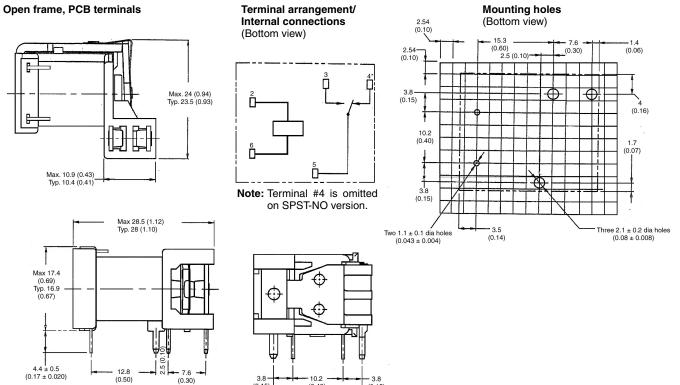
SPDT



**Dimensions** 

Unit: mm (inch)

## Relays



- 3.8 (0.15)

3.8 <del>-</del> (0.15)

10.2 (0.40) - 17.8 (0.70)

-3.2 (0.13)

5.6 (0.22)

Three 2.1 ± 0.2 dia. holes (0.083 ± 0.008 dia)

-1.4 (0.06)

(0.16)

(0.07)

Т

#### Unit: mm (inch) **Terminal arrangement/** Sealed/Ventable, PCB terminals Mounting holes Internal connections (Bottom view) Max. 18.5 (0.73) Typ. 18 (0.71) (Bottom view) 15.3 2.54 (0.10) 7.6 (0.30) (0.60) 2.5 (0.10 2.54-(0.10) Φ ñ Max. 20. (0.82) Typ. 20.4 (0.80) Max. 27.7 (1.09) Typ. 27.2 (1.07) $\oplus$ 3.8 (0.15) 10.2 (0.40) 3.8 (0.15 Max. 5.7 (0.22) Typ. 5.2 (0.20) 3.8 Max. 14.1 (0.56) Typ. 13.6 (0.54) Note: Terminal #4 is omitted on SPST-NO version. Two 1.1 ± 0.1 dia. holes (0.043 ± 0.004 dia.) 5.5 × (0.22) Max. 32.1 (1.26) Typ. 31.6 (1.24) цt **Pin Dimensions** large = 1.6 x 1.2; 1.2 x 0.8 x 3.3L Max. 20.1 (0.79) Typ. 19.6 (0.77) small = 0.6 x 0.5 x 3.3L 0.4 10.2 (0.015) - 12.8 (0.50) (0.40) 3.8 (0.15) 3.3 ± 0.5 (0.13 ±0.020) (0.30) (0.15) Open frame, PCB with Mounting holes **Terminal arrangement/ Quick Connect terminals** Internal connections (Bottom view) (Bottom view) 2.54 (0.10) 15.3 (0.60)2.54-(0.10) 2.5 (0.10 B ň Max. 24 (0.94) Typ. 23.5 (0.93) 3.8 (0.15) G 10.2 (0.40 L Ď Max 10.9 (0.43) Typ. 10.4 (0.41) Max. 28.5 (1.12) Typ. 28 (1.10) Note: Terminal #4 is omitted (0.15) on SPST-NO version. Two 1.1 ± 0.1 dia hole (0.043 ± 0.004 dia.) Three 2.1 ± 0.2 dia. holes (0.083 ± 0.008) ---3.5 (0.14) 250" Quick Connect terminals 9.8 (0.39) Ð Ð **Pin Dimensions** T T $\oplus$ large = 1.6 x 1.2; 1.2 x 0.8 x 3.3L Max. 17.4 (0.69) Typ. 16.9 (0.67) $\oplus$ small = 0.6 x 0.5 x 3.3L 4.4 ± 0.5 (0.17 ± 0.020) 12.8 7.6 (0.50) (0.30) (0.40) 3.8

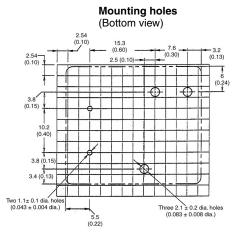
17.8 (0.70)

(0.15)

(0.15)

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### Sealed/Ventable, PCB with Quick Connect Terminal arrangement/ terminals Internal connections .250" Quick Connect termin (Bottom view) Ø Ļ $\oplus$ Max. 27.5 (1.08) Typ. 27 (1.06) Max. 31.9 (1.26) Typ. 31.4 (1.24) Note: Terminal #4 is omitted on SPST-NO version. τt Max. 28.3 (1.11) Typ. 27.8 (1.09) 19.6 (0.77) 0.4 (0.02) 2.5 3.3 ± 0.5 (0.13 ± 0.020) 12.8 (0.50) 7.6 (0.30) 10.2 3.8 / (0.15) (0.40) 3.8 (0.15) Terminal arrangement/ Internal connections (Bottom view) 50" Quick Connect terminals Max 27.7 (1.09) Typ. 27.2 (1.07) Æ 3.6 dia. ⊕ 0.8 dia (0.03 187" Quick Connect terminal

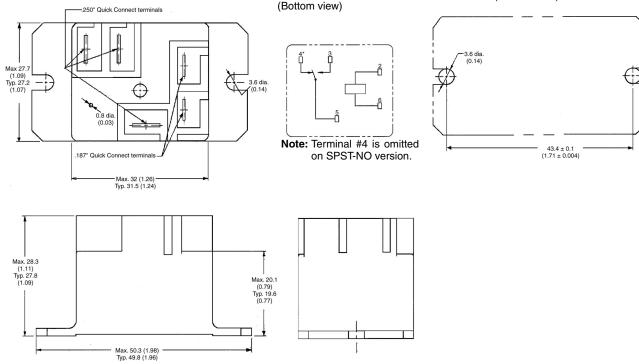


**Pin Dimensions** large = 1.6 x 1.2; 1.2 x 0.8 x 3.3L small = 0.6 x 0.5 x 3.3L

Mounting holes

(Bottom view)

#### Flange mount



Note: Allow air circulation within the sealed type G8PT by removing the ventilation nib from the cover after soldering and cleaning is complete.

## ■ Approvals

#### UL Recognized (File No. E42643), CSA Certified (File No. LR34815)

Contact form	Coil ratings	Contact ratings	
SPST-NO	5 to 110 VDC	30 A, 240 VAC (G.P./Res.), 40°C, 50,000 cycles 20 A, 28 VDC (Res.), 40°C, 6,000 cycles 20 A, 240 VAC (Res.), 70°C, 100,000 cycles 23 A, 240 VAC (Res.), 85°C, 100,000 cycles 1 HP, 125-250 VAC, 40°C, 1,000 cycles 2 HP, 250 VAC, 40°C, 1,000 cycles A300 Pilot Duty, 40°C, 600 cycles 20 FLA, 96 LRA, 125 VAC, 40°C, 100,000 cycles 5 A, 250 VAC (Tungsten), 40°C, 6,000 cycles 20 A, 120-277 VAC (Ballast), 40°C, 6,000 cycles TV-5, 40°C, 25,000 cycles	
SPDT	5 to 110 VDC	IV-5, 40°C, 25,000 cycles      NO/NC      30 A/20 A, 277 VAC (Res.), 40°C, 100,000 cycles (N.O.) and 30,000 cycles (N 20 A/15 A, 250 VAC (Res.), 105°C, 100,000 cycles (N.O.) and 30,000 cycles (N 20 A/10 A, 28 VDC (Res.), 40°C, 6,000 cycles      30 A/30 A, 277 VAC (Res.), 40°C, 100,000 cycles      30 A/30 A, 277 VAC (Res.), 40°C, 100,000 cycles      1/2 HP/1/2 HP, 125 VAC, 40°C, 100,000 cycles      2 HP/ 1/2 HP, 250 VAC, 40°C, 1,000 cycles      1 HP/ 1/4 HP, 125 VAC, 40°C, 1,000 cycles      B150 Pilot Duty, 40°C, 100,000 cycles      5 A/ 3 A, 250 VAC (Tungsten), 40°C, 6,000 cycles      6 A/ 3 A, 277 VAC (Ballast), 40°C, 6,000 cycles      TV-5 (N.O.), 40°C, 25,000 cycles	

#### VDE recognized type (Licence No. 40004714)

Note: 1. The rated values approved by each of the safety standards (e.g., UL, CSA) may be different from the performance characteristics individually defined in this catalog.

- 2. For information on additional ratings not included in this catalog, contact your local Omron Representative.
- 3. In the interest of product improvement, specifications are subject to change.
- 4. Please contact Omron for details regarding VDE approvals.
- 5. Meets requirements of polluiton degree 2 with Material II & III.

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